LISI PUMP

LIQUID SCINTILLATOR ADMIXTURE PUMP FOR RADIO-HPLC

Optimized for blending liquid scintillator

- ✓ PERFECT COMBINATION WITH RAMONA DETECTOR FOR ALPHA MEASUREMENTS
- ✓ INCLUDE THE PEEK T PART, THE MIXER AND AN OPTIONAL HPLC FLOW SPLITTER
- ✓ STABLE AND ACCURATE FLOW FOR VISCOUS LIQUID SCINTILLATOR
- ✓ FULL DIGITAL CONTROL

The LISI HPLC-LS pump is our isocratic Liquid Scintillator admixture pump, used for continuous admixture of the liquid scintillator to the HPLC flow before entering the Ramona radiodetector.

Optimized pump design enables excellent performance and high flexibility for demanding pressure dosing tasks. The pump has been designed for optimal work with liquid scintillators, providing high reliability, low maintenance costs and stable flow of viscous liquids.

The flow rate of the liquid scintillator can be set at the front panel, set through analog input from the HPLC system or controlled and registered with our GINA X control software.

Liquid scintillation is the most sensitive and universal detection method for Alpha nuclides such as Ac-225, Bi-213 or At-211 and low energy beta nuclides such as H-3 or C-14. For best measurement performances, it is important to have stable and precise liquid scintillator admixtures.

The LISI HLPC-LS pump is a compact dual piston pump designed for HPLC applications. The pump head is manufactured in ceramic and is very reliable for bioinert applications. It can handle flows up to 10 ml / min and pressures up to 150 bars. Pump heads can be exchanged quickly for easy maintenance.

The pump is available with an optional splitter. The splitter allows to minimize the amount of liquid scintillator consumed by splitting the HPLC flow between the waste and the radiodetector (T part). The splitter is made of peek suitable for biological analytes and ensures low maintenance costs.

By default, the split ratios are 90:10, 70:30, 50:50. Another ratio can be configured on request. LISI has also an analogue entry which can be used to start and stop the pump from third party HPLC software.

Control of the LISI pump with our GINA X software permits fully integrated control of the system with a digital control over the flow. The GINA control ensures precise control and digital recording of all settings and signals to allow a GMP and CFR part 11 compliant analysis.

ELYSIA RAYTEST

Specifications

Technical

Flow	rate range 0.01-50 ml/min
Maximum pressure	150 bars
Maximum viscosity	100 cp
Isocratic pump	
Pump head Material	Ceramic
Analog inputs	0-10V
Flow rate accuracy	±5%
Communication	Ethernet
Splitter (optional)	10, 30, 50, 70, 90
Temperature	10-40°C
Power supply	100-240V, 50-60 Hz

Physical

Dimensions	Depth 20cm / Width 25cm / Height 17cm
Weight	6.2 kg

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